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(54) **Symbol timing recovery in a multicarrier receiver**

(57) An Orthogonal Frequency Division Multiplexing (OFDM) receiver is disclosed that compensates for FFT window drift, by extracting (50,52) a training symbol and processing (60,62,66) the extracted training symbol, to

derive an adjustment factor and an associated equalizer tap initialization value. The OFDM receiver controls the position of the FFT window and the initialization of equalizer taps using the adjustment factor and initialization value.

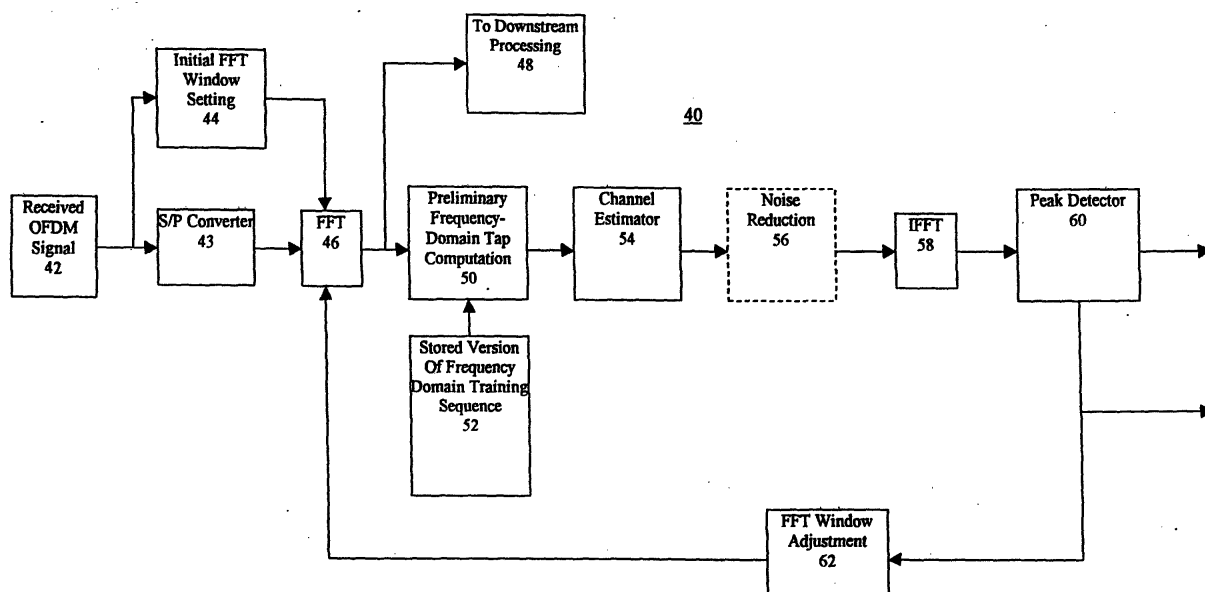


FIG. 4



European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 01 40 1967

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	JANKIRAMAN M ET AL: "A NOVEL ALGORITHMIC SYNCHRONISATION TECHNIQUE FOR OFDM BASED WIRELESS MULTIMEDIA COMMUNICATIONS" ICC '99. 1999 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS. CONFERENCE RECORD. VANCOUVER, CA, JUNE 6 - 10, 1999, IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, NEW YORK, NY : IEEE, US, vol. VOL. 1, 6 June 1999 (1999-06-06), pages 528-533, XP000898322 ISBN: 0-7803-5285-8	1-3,5, 10,11,13	H04L27/26
A	* page 529, right-hand column, line 1 - page 530, right-hand column, line 22; figure 1 *	19	
E	EP 1 139 623 A (THOMSON LICENSING) 4 October 2001 (2001-10-04) * figure 5 *	1-5, 10-13,19	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H03M
The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of the search 15 April 2005	Examiner Augarde, E
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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15-04-2005

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